

Title (en)

Preparation process of new crystalline modifications of pigment C.I. Pigment Red 53:2

Title (de)

Verfahren zur Herstellung neuer Kristallmodifikationen von C.I. Pigment Red 53:2

Title (fr)

Procédé de préparation de nouvelles modifications cristallines du pigment C.I. Pigment Red 53:2

Publication

**EP 1010732 A1 20000621 (DE)**

Application

**EP 99124709 A 19991211**

Priority

DE 19858853 A 19981219

Abstract (en)

Twelve new modifications of C.I. Pigment Red 53:2, i.e. N-(2-oxo-naphth-1-yl-N'-(4-chloro-6-methyl-2-sulfophenyl)hydrazone, (partial) calcium salt, or its tautomeric or cis/trans-isomeric forms are claimed. Twelve new modifications of C.I. Pigment Red 53:2, i.e. N-(2-oxo-naphth-1-yl-N'-(4-chloro-6-methyl-2-sulfophenyl)hydrazone, (partial) calcium salt, of formula (I) or its tautomeric or cis/trans-isomeric forms are claimed; M = a cation, including NOTLESS 50% calcium ions . The modifications consist of a phase (mixture) with specified x-ray powder diffractogram, in which the phases have 100% relative intensity at the following angle 2θ degrees plus or minus 0.2 degrees /spacing d Angstrom values (Cu-K SIMILAR a radiation) : 7.87/11.2 (epsilon), 7.97/11.1 (zeta), 4.57/19.3 (eta), 25.82/3.4 (theta), 4.20/21.1 (iota), 26.14/3.4 (kappa), 5.03/17.5 (lambda), 26.35/3.4 (nu), 7.83/11.3 (chi), 24.56/3.6 (omicron), 5.60/15.8 (pi) or 4.96/17.8 (rho-phase). The full details of the x-ray powder diffraction data are given in the ORGANIC CHEMISTRY (Diffractogram Data) Field. Independent claims are also included for: (a) the phase conversion of C.I. Pigment Red 53:2 by heating to 30-300 degrees C in organic solvent with a water content of 0-90 wt.%, with the exception of isopropanol, isobutanol, amyl alcohol, chlorobenzene and N-methylpyrrolidone, and reprecipitation of the pigment; (b) C.I. Pigment Red 53:2 mixtures or mixed crystals containing NOTLESS 10, preferably NOTLESS 25, especially NOTLESS 50, more especially NOTLESS 75 wt.% of one or more of these phases.

Abstract (de)

C.I. Pigment Red 53:2 wird in neuen Kristallmodifikationen (epsilon-, zeta-, eta-, theta-, iota-, kappa-, lambda-, nu-, xi-, omikron-, pi- und rho-Phase) erhalten, wenn man eine beliebige andere Phase dieses Pigments in bestimmten organischen Lösemitteln erhitzt und wieder ausfällt. Die neuen Kristallphasen unterscheiden sich voneinander in Rheologie und Coloristik.

IPC 1-7

**C09B 67/48; C09B 67/10; C09B 63/00**

IPC 8 full level

**C09B 26/04** (2006.01); **C09B 63/00** (2006.01); **C09B 67/00** (2006.01); **C09B 67/10** (2006.01); **C09B 67/48** (2006.01); **C09D 5/46** (2006.01);  
**C09D 7/12** (2006.01); **C09D 11/00** (2006.01); **C09D 201/00** (2006.01); **G03G 9/09** (2006.01)

CPC (source: EP KR US)

**C09B 63/005** (2013.01 - EP US); **C09B 67/0014** (2013.01 - KR); **C09B 67/0015** (2013.01 - EP US); **C09B 67/0029** (2013.01 - EP US)

Citation (search report)

- [Y] EP 0097913 A2 19840111 - HOECHST AG [DE]
- [Y] FR 2432538 A1 19800229 - BASF AG [DE]
- [A] EP 0545072 A2 19930609 - HOECHST AG [DE]
- [A] PATENT ABSTRACTS OF JAPAN vol. 098, no. 014 31 December 1998 (1998-12-31)
- [A] PATENT ABSTRACTS OF JAPAN vol. 1997, no. 03 31 March 1997 (1997-03-31)
- [A] PATENT ABSTRACTS OF JAPAN vol. 1997, no. 11 28 November 1997 (1997-11-28)
- [A] PATENT ABSTRACTS OF JAPAN vol. 1998, no. 01 30 January 1998 (1998-01-30)
- [A] PATENT ABSTRACTS OF JAPAN vol. 1998, no. 02 30 January 1998 (1998-01-30)

Cited by

EP1528084A1; EP1170338A3; WO2007087148A1; JP2002053767A; KR100767268B1

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

**EP 1010732 A1 20000621**; CN 1261614 A 20000802; DE 19858853 A1 20000621; JP 2000212465 A 20000802; KR 20000048225 A 20000725;  
US 6228162 B1 20010508

DOCDB simple family (application)

**EP 99124709 A 19991211**; CN 99127772 A 19991217; DE 19858853 A 19981219; JP 35804799 A 19991216; KR 19990058664 A 19991217;  
US 46482099 A 19991217